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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,584	05/25/2007	Noriyuki Suzuki	062537	1777
	7590 07/06/200 , HATTORI, DANIEL		EXAMINER	
1250 CONNECTICUT AVENUE, NW		SALVITTI, MICHAEL A		
SUITE 700 WASHINGTOI	N, DC 20036		ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			07/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/582,584	SUZUKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	MICHAEL A. SALVITTI	1796	
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun - If NO period for reply is specified above, the maximum statul - Failure to reply within the set or extended period for reply wil Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF THIS COMMUNI 37 CFR 1.136(a). In no event, however, may a ication. tory period will apply and will expire SIX (6) MON I, by statute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed This action is FINAL. Since this application is in condition fo closed in accordance with the practice)⊠ This action is non-final. r allowance except for formal mat	• •	;
Disposition of Claims			
4) Claim(s) 1-8 is/are pending in the appl 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) 8 is/are objected to. 8) Claim(s) are subject to restriction. Application Papers 9) The specification is objected to by the 8 is/are allowed. Application Papers 9) The drawing(s) filed on is/are: allowed. Applicant may not request that any objection. Replacement drawing sheet(s) including the	withdrawn from consideration. on and/or election requirement. Examiner. a) \(\begin{align*} \text{ accepted or b)} \(\begin{align*} objected to on to the drawing(s) be held in abeyang the contact of the drawing(s) and the drawing(s) and the drawing(s) are the drawing(s) and the drawing(s) are the drawing(s) and the drawing(s) are the drawing(s).	nce. See 37 CFR 1.85(a).	d).
11)☐ The oath or declaration is objected to b	y the Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
<u> </u>	ocuments have been received. ocuments have been received in A the priority documents have been al Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTC 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 06/12/2006, 09/11/2006, 10/17	D-948) Paper No(5) Notice of I	Summary (PTO-413) s)/Mail Date nformal Patent Application 	



Application No.

DETAILED ACTION

Claim Objections

Claim 8 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 6, on which claim 8 is dependent, recites a narrower range (<2.0%) than the range of <3.0% recited by claim 8.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "should not be higher than 2.0%" in claim 6 is a relative term which renders the claim indefinite. The term "should not be higher 2.0%" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For the purposes of further examination, the claim will be examined as meaning "is less than 2.0%".

The term "should not be lower than 150°C" in claim 6 is a relative term which renders the claim indefinite. The term "should not be lower than 150°C" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For the purposes of further examination, the claim will be examined as meaning "is less than 150°C".

The term "should not be higher than 3.0%" in claim 7 is a relative term which renders the claim indefinite. The term "should not be higher 3.0%" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For the purposes of further examination, the claim will be examined as meaning "is less than 3.0%".

The term "should not be higher than 3.0%" in claim 8 is a relative term which renders the claim indefinite. The term "should not be higher 3.0%" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For the purposes of further examination, the claim will be examined as meaning "is less than 3.0%".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 2001/088035 to *Suzuki et al.* (for translational purposes English equivalent US 2004/0024139 A1 is being referenced, hereinafter referred to as *Suzuki '139*) in view of U.S. Patent No. 4,647,650 to *Sasaki et al.*

Regarding claims 1 and 2: Suzuki '139 teaches a polyester resin composition comprising a polyalkylene terephthalate (polyethylene terephthalate, PET) and a layered compound (A-1 through A-6; see Table 3, ¶ [0144]).

Suzuki '139 is silent regarding whether the acid value of the polyester resin utilized in making the composition is below 30 μeq/g. Sasaki teaches polyester resins having an acid value of 11 μeq/g (Examples 2-3 and 6 in Table). Suzuki '139 and Sasaki are analogous art in that they are drawn to the same field of endeavor, namely synthesis of filled polyester resins suitable for molding applications. At the time of the invention, it would have been obvious to a person having ordinary skill in the art to use a polyester with a low acid value, as taught by Sasaki with the composition of Suzuki '139, with the motivation of obtaining a composition having a high intrinsic viscosity (Sasaki col. 1, lines 60-65), stated to be preferable for forming molding compositions (Sasaki col. 1, lines 15-29).

Regarding claim 3: Suzuki '139 teaches the layered composition treated with a polyether compound (see abstract).

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Regarding claim 5: Suzuki '139 teaches molded articles made from the composition (¶ [0101]).

Claims 1-2 and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,583,208 to *Suzuki* (hereinafter referred to as *Suzuki* '208) in view of U.S. Patent No. 4,647,650 to *Sasaki*.

Regarding claims 1 and 2: Suzuki '208 teaches a polyester resin composition comprising a polyalkyene terephthalate (PET and PBT; col. 21, lines 47-53) and a layered compound (phyllosilicate; col. 21, lines 25-35).

Suzuki '208 is silent as to whether the acid value of the polyester resins are below below 30 μeq/g. Sasaki teaches polyester resins having an acid value of 11 μeq/g (Examples 2-3 and 6 in Table). Suzuki '208 and Sasaki are analogous art in that they are drawn to the same field of endeavor, namely synthesis of filled polyester resins suitable for molding. At the time of the invention, it would have been obvious to a person having ordinary skill in the art to use a polyester with a low acid value, as taught by Sasaki with the composition of Suzuki '208, with the motivation of obtaining a composition having a high intrinsic viscosity (Sasaki col. 1, lines 60-65), which is preferable for forming molding compositions (Sasaki col. 1, lines 15-29).

Regarding claim 4: Suzuki '208 teaches the layered compound treated with a silane (see abstract).

Regarding claim 5: Suzuki '208 teaches molded articles made from the composition (col. 3, lines 15-16).

Regarding claims 6-8: Suzuki '208 teaches a deflection temperature under load of greater than 150°C for all examples (Table 4).

Suzuki '208 does not state the diffuse reflectance of the surface provided with an aluminum layer without primer. However, this property has been held to be intrinsic for the following reason: the applicant admits that polyester resin formed from the combination of Suzuki '208 and Sasaki intrinsically have low diffuse reflectance characteristics (page 4, lines 19-25 of instant specification). At the time of the invention, it would have been obvious to a person having ordinary skill in the art to combine Suzuki '208 and Sasaki, with the motivation of creating a coating showing a diffuse reflectance of less than 2.0%.

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. Patent No. 5,264,529 to Nozaki et al. teaches low acid value (20 μeq/g) polyesters as powder coatings.
- US 2005/209435 teaches low acid value PET as molding compositions.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL A. SALVITTI whose telephone number is

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(571)270-7341. The examiner can normally be reached on Monday-Thursday 8AM-

7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Eashoo can be reached on (571) 272-1197. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. A. S./ Examiner, Art Unit 1796

/David Wu/ Supervisory Patent Examiner, Art Unit 1796